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Please amend claims 1-4, 6 and 9 as follows:

Claims:

1-9 (canceled)

10. (newly presented) A parallel kinematic positioning machine having a frame and having an arm that is mounted to said frame such that it can slide axially within the frame and swing in all directions relative to the frame, further comprising:

a machine-connected positioning head mounted on an end of said arm;

at least three machine-setting devices circumferentially spaced about the frame and each machine-setting device mounted to the frame by a universal joint such that each of said machine setting devices can swing in all directions relative to the frame, each machine setting device comprising a piston-displaceable axially in a cylinder, and having an end connected by an arm joint to the machine-connected positioning head;

each arm joint comprising a wobbler which further comprises a supporting shaft having a main axis and an offset cylindrical portion defining an external bearing mounting surface, said offset cylindrical portion having an axis that has a constant angular offset from the supporting shaft and intersecting with the main axis, thus defining a wobbler axis, said supporting shaft mounted to the machine-connected positioning head at positions tangential to the circumference of the machine-connected positioning head;

each machine setting device being rotatably mounted to the external bearing mounting surface defined by the offset cylindrical portion of the wobbler;

wherein displacing the pistons in their respective cylinders in each machine setting device rotates the offset cylindrical portion of the wobbler around its axis which in turn tilts and displaces the supporting shaft relative to the machine setting device, thus bringing the machine-connected positioning head to a different position in space relative to the frame.

- 11. (newly presented)** A parallel kinematic machine according to claim 10 wherein the supporting shaft of the arm joint is rotatably mounted to the machine positioning head.
- 12. (newly presented)** A parallel kinematic machine according to claim 11 wherein the supporting shaft of the arm joint is rotatably mounted to the machine positioning head by means of two bearing housings positioned on respective sides of the arm joint adapted to receive, respectively, a first end and a second end of supporting shaft.
- 13. (newly presented)** A parallel kinematic machine according to claim 10 where the supporting shaft of the arm joint is non-rotatably mounted to the machine positioning head and the offset cylindrical portion of the arm joint is rotatably mounted to the supporting shaft.
- 14. (newly presented)** A parallel kinematic machine according to claim 13, characterized in that one end of the supporting shaft is inserted in a first joint mounting means which is secured axially by a clamp coupling; and in that the other end of the supporting shaft is firmly connected to a second joint mounting means.
- 15. (newly presented)** A parallel kinematic machine according to claim 10, characterized in that, for each arm joint, the wobbler axis and the main axis of the supporting shaft mutually intersect at a constant angle α , where $1^\circ \leq \alpha \leq 45^\circ$.
- 16. (newly presented)** A parallel kinematic machine according to claim 10, characterized in that, for each arm joint, the wobbler axis and the main axis of the supporting shaft mutually intersect at a constant angle α , where $5^\circ \leq \alpha \leq 20^\circ$.
- 17. (newly presented)** A parallel kinematics machine according to claim 10 wherein each of the at least three arms intersect at an angle α to the supporting shafts of each arm joint, so as to permit tilting between the machine arms settings devices and their respective supporting shafts mounted to the machine positioning head.